



# 3D PRINTING



## How to Be Excellent

**Provide your own consumables** - Filament, tape, hairspray, glue, etc. If someone donates community supplies and you utilize them, pay it forward by donating another glue stick, etc. If something is unlabeled, do not assume it is free to use.

**Label and properly store your consumables** - By placing your name on filament and other supplies, it is less likely that someone else will use them. If you need a member storage bin, contact Joe Gravelle (@joe.gravelle).

**Remove your prints and filament from printers promptly** - If you leave a job for overnight printing, leave a note with your contact info and when you will be returning. Unattended prints and filament may be removed if the printer is needed, and removal damage happens.

**Clean up** - ensure your filament scraps, old prints, etc. are in the trash. If the trash in this area is full, place the tied bag by the back door. Use the mini electric compressed air gun to blow off extra filament strands, and sweep if needed.

**Be considerate when starting jobs** - Is there a 3D printing class scheduled for that night? Has anyone reserved the printer (check the slack channel)? If you are planning a 10+ hour print, please communicate in the slack channel first. **Multi-day jobs should wait for feedback from others before starting.**

**Be considerate when selecting your printer** - Each printer has different capabilities, and we often have multiple of one style of printer. If you select wisely, you leave high-demand printers available for others. Printing something small in PLA? Use a DeltaMaker since we have multiple!

**Buy good filament** - If you buy cheap filament or filament with particles or impurities (like the wood filament), we will have more clogged nozzles, more failed prints, and more grumpy members. Spend a few more \$\$, get the good stuff and don't buy the experimental stuff.

**Teach others** - Once you've learned the basics, please help others learn in-person, via slack, or at one of our 3D printing workshops! If you want to host a workshop, talk to Jeff (@jeff).

## Thou Shall Not

**We don't like creating rules, but there are a few things that are forbidden.**

**Do not print weapons, parts of weapons or accessories for weapons.** We love props - so print all the prop weapons you like, but if it is designed to harm others, you may not print it at MakerFX Makerspace, or on equipment owned by The Maker Effect Foundation.

**Do not modify, disassemble, or make major repairs without consulting a 3D Printing Point-of-Contact (POC).** In some cases, we don't own the printers (DeltaMakers), or there may be extenuating circumstances (known issues / past repairs). Please use the mfx-3dprinting slack channel to communicate any issues and to reach agreement with a POC on the resolution.

**Do not use experimental filament, or filament that contains particles.** We know you want to print with that awesome wood, hemp, etc. filament, but we can't handle the endless clogs, so we had to ban it.

## Important Info

Slack Channel:	mfx-3d-printing
Wiki Pages:	<a href="http://wiki.makerfx.org/3D_Printing_Zone">http://wiki.makerfx.org/3D_Printing_Zone</a>
Point(s) of Contact:	Jeff Driscoll (@jeff), Andy Stetzinger (@andy)
Computer password:	Same as guest wifi
Octoprint credentials:	admin / 3dadmin

## Filament We Like

DeltaMaker PLA  
Hatchbox PLA  
AMAZ3D PLA  
Matterhackers PLA  
ESUN PLA  
More on the wiki...

At this time, we only support the printing of PLA filament. We are working to support ABS and other filament types. If you need to printing something other than PLA, talk to a 3D printing POC - they can help you determine what we are capable of printing, or refer you to someone who can help...